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Specification

| Product | Pepsin 1:10000 NF12 for microbiology |
|------------------------|--------------------------------------|
| Product number | 1403 |
| Molecular weight | ~36000 g/mol |
| CAS number | 9001-75-6 |
| Storage | 2 - 8°C |
| Retest period (months) | 36 |

Pepsin is an acidic, proteolytic enzyme product resulting from the processing of porcine stomach linings. A suitable diluent is added to adjust the enzyme activity to the specified quantity.

| Parameter | Specification |
|-----------------|--------------------------------------------------------------------------------------------------|
| Appearance | white or slightly yellow, crystalline or amorphous powder, hygroscopic |
| Solubility | Soluble in water, practically insoluble in alcohol. Solution in water (1:50) is slightly acidic. |
| Identity | passes test |
| Loss on drying | <= 5 % |
| Pepsin Activity | >= 1:10000 NF (revised) |
| TAMC | <= 10000 cfu/g |
| TYMC | <= 100 cfu/g |
| E. coli | absent |
| Salmonella sp. | absent |

Unit definition (revised)

The "1:10000" in the activity is a measure of the activity of the Pepsin. It represents the ratio of enzyme to substrate.

One Pepsin unit will digest 10,000 units of coagulated egg albumin at 52°C, pH 2-3.

NF 10000 = NF 1:10000 = 10000 FCC units/mg = 1:10000

Einhausen, 16.05.2025